

EXPRESS EV386480551US 10/5/22/18  
Docket No.: PEG202002

Docket No.: PF020093

## **DECLARATION AND POWERS OF ATTORNEY**

**As a below named inventor, I hereby declare that:**

My residence, post office address and citizenship are as stated below next to my name.  
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled  
**OXIDE CATHODE FOR ELECTRON GUN WITH A DIFFERENTIALLY DOPED METALLIC SUBSTRATE**

**OXIDE CATHODE FOR ELECTRON GUN WITH A DIFFERENTIALLY DOPED METALLIC SUBSTRATE**  
the specification of which was filed on July 21, 2003 as Application Serial No. PCT/EP03/50323 and was amended on  
January 24, 2005, or, if not identified here by filing date and serial number, is attached hereto.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR 1.56.  
I hereby claim foreign priority benefits under 35 USC 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate by me or my representatives or assigns for this invention having a filing date before that of the application on which priority is claimed.

Application No. 02291859.3 in EP on July 24, 2002 priority claimed [x] Yes [ ] No

**Application No.** 02291055-3 **in** U.S.A. **on** Priority claimed  **Yes**  **No**

Application No. \_\_\_\_\_ in \_\_\_\_\_ on \_\_\_\_\_ priority claimed [ ] Yes [ ] No  
Application No. \_\_\_\_\_ in \_\_\_\_\_ on \_\_\_\_\_ priority claimed [ ] Yes [ ] No

I hereby claim the benefit under 35 USC 119(e) of any United States provisional application(s) as listed below.

**Application No.** \_\_\_\_\_ **Filed** \_\_\_\_\_

**Application No.** \_\_\_\_\_ **Filed** \_\_\_\_\_

I hereby claim the benefit under 35 USC 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose material information as defined in 37 CFR 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application

Serial No. \_\_\_\_\_ Filed \_\_\_\_\_ [ ] patented [ ] pending [ ] abandoned

Serial No. \_\_\_\_\_ Filed \_\_\_\_\_ [ ] patented [ ] pending [ ] abandoned  
Serial No. \_\_\_\_\_ Filed \_\_\_\_\_ [ ] patented [ ] pending [ ] abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint, individually and collectively, the following as my/our attorney or agent with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Joseph S. Tripoli	Registration No.	26,040	and
Joseph J. Laks	Registration No.	27,914	and
Harvey D. Fried	Registration No.	28,298	and
Ronald H. Kurdyla	Registration No.	26,932	and
Robert D. Shedd	Registration No.	36,269	and
Vincent E. Duffy	Registration No.	39,964	

PLEASE ADDRESS ALL  
COMMUNICATIONS TO: JOSEPH S. TRIPOLI  
  
PATENT OPERATIONS  
THOMSON LICENSING INC.  
P. O. BOX 5312  
PRINCETON, NEW JERSEY 08543-5312

Sole or Joint Inventor (1)	Jean-Michel ROQUAIS (Type or Print)	<i>Jean-Michel Roquaïs</i> (Signature in Full. No initials.)
Citizenship	FR	Date
Post Office Address	11 bis rue des Roses - F-21000 DIJON	<i>March the 4<sup>th</sup>, 2005</i>
Residence	FR	<i>[Signature]</i>
Sole or Joint Inventor (2)	Donald John WIERSCHKE (Type or Print)	(Signature in Full. No initials.)
Citizenship	US	Date
Post Office Address	3324 Stillwell Driver – 17601 LANCASTER	
Residence	US	
Sole or Joint Inventor (3)	(Type or Print)	(Signature in Full. No initials.)
Citizenship		Date
Post Office Address		
Residence		

Rev. 06/2004

**Patent Operations  
Thomson Licensing Inc.  
P.O. Box 5312  
Princeton, NJ 08543-5312**

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## **DECLARATION AND POWERS OF ATTORNEY**

a below named inventor, I hereby declare that:

... my post office address and citizenship are as stated below next to my name.

My residence, post office address and citizenship are as stated below next to my name.  
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of  
the subject matter which is claimed and for which a patent is sought on the invention entitled

## **THEORY FOR ELECTRON GUN WITH A DIFFERENTIALLY DOPED METALLIC SUBSTRATE**

KIDE CATHODE FOR ELECTRON GUN WITH A DIFFERENTIALLY DOUBLED THERMionic EMISSION CATHODE  
e specification of which was filed on July 21, 2003 as Application Serial No. PCT/EP03/50323 and was amended on  
or, if not identified here by filing date and serial number, is attached hereto.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application. I hereby claim foreign priority benefits under 35 USC 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate by me or my representatives or assigns for this invention having a filing date before the filing date of this application.

on July 24, 2002 priority claimed [x] Yes [ ] No

Application No. 02291859.3 in EP on July 24, 2002 priority claimed [x] Yes [ ] No [ ]

Application No. \_\_\_\_\_ in \_\_\_\_\_ on \_\_\_\_\_ priority claimed [ ] Yes [ ] No  
in \_\_\_\_\_ on \_\_\_\_\_ priority claimed [ ] Yes [ ] No

Application No. \_\_\_\_\_ in \_\_\_\_\_ on \_\_\_\_\_ priority claimed [ ] Yes [ ] No  
Priority claimed under 35 USC 119(e) of any United States provisional application(s)

I hereby claim the benefit under 35 USC 119(e) of any United States provisional application(s) as listed below.

Application No. \_\_\_\_\_ Filed \_\_\_\_\_

Application No. \_\_\_\_\_ Filed \_\_\_\_\_

Application No. \_\_\_\_\_ Filed \_\_\_\_\_  
I hereby claim the benefit under 35 USC 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose material information as defined in 37 CFR 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application  
[ ] abandoned [ ] pending [ ] abandoned

Serial No. \_\_\_\_\_ Filed \_\_\_\_\_ [ ] patented [ ] pending [ ] abandoned

Serial No. \_\_\_\_\_ Filed \_\_\_\_\_ [ ] patented [ ] pending [ ] abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, and that if false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint, individually and collectively, the following as my/our attorney or agent with full power of substitution and revocation, to prosecute this application before the United States Patent and Trademark Office connected therewith:

I hereby appoint, individually and jointly, John C. H. Smith and John C. H. Smith, Jr. to file application and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Joseph S. Tripoli	Registration No.	26,040	and
Joseph J. Laks	Registration No.	27,914	and
Harvey D. Fried	Registration No.	28,298	and
Ronald H. Kurdyla	Registration No.	26,932	and
Robert D. Shedd	Registration No.	36,269	and
Vincent E. Duffy	Registration No.	39,964	

PLEASE ADDRESS ALL  
COMMUNICATIONS TO: **JOSEPH S. TRIPOLI**  
**PATENT OPERATIONS**  
**THOMSON LICENSING INC.**  
**P. O. BOX 5312**  
**PRINCETON, NEW JERSEY 08543-5312**

Sole or Joint Inventor (1)	<u>Jean-Michel ROQUAIS</u>	
	(Type or Print)	
Citizenship	FR	Date _____
Post Office Address	<u>11 bis rue des Roses - F-21000 DIJON</u>	
Residence	FR	<i>JM</i>
Sole or Joint Inventor (2)	<u>Donald John WIERSCHE</u>	
	(Type or Print)	
Citizenship	US	<i>DK</i>
Post Office Address	<u>3324 Stillwell Driver – 17601 LANCASTER</u>	
Residence	US	<i>JK</i>
Sole or Joint Inventor (3)		
	(Type or Print)	
Citizenship		
Post Office Address		
Residence		

**Patent Operations  
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Princeton, NJ 08543-5312**

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10/522115

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DT01 Rec'd PCT/PTC 24 JAN 2005

Applicants : Jean-Michel Roquais; Donald John Wierschke

Int'l Appln. No. : PCT/EP03/50323

Int'l Filed : July 21, 2003

For : OXIDE CATHODE FOR ELECTRON GUN WITH A DIFFERENTIALLY DOPED METALLIC SUBSTRATE

APPOINTMENT OF ASSOCIATE ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

I, Ronald H. Kurdyla, an attorney of record, hereby appoint Patricia A. Verlangieri, Reg. No. 42,201, Telephone: (609-734-6867) and Rich LaPeruta, Reg. No. 51252, Telephone: 717-295-6207), as associate attorneys in the above-identified application, with full power to prosecute the above-identified application, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

## PLEASE ADDRESS ALL FUTURE COMMUNICATIONS TO:

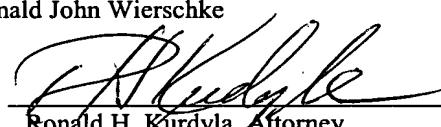
Joseph S. Tripoli  
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Respectfully submitted,

Jean-Michel Roquais  
Donald John Wierschke

By

Ronald H. Kurdyla, Attorney  
Reg. No. 26,932  
Phone: (609) 734-6818



Date: January 17, 2005

EXPRESS EV 386480551US 10/522,115

PTO/SB/81 (11-04)

Approved for use through 11/30/2006. GSA FPMR (41 CFR) 101-11.6

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Rec'd PCIP 10-18 SEP 2005

**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

<b>Application Number</b>	10/522,115
<b>Filing Date</b>	21/JUL/2003
<b>First Named Inventor</b>	JEAN-MICHEL ROQUAIS ET AL
<b>Title</b>	OXIDE CATHODE FOR ELECTRON GUN WITH A DIFFERENTIALLY DOPED METALLIC SUBSTRATE
<b>Art Unit</b>	
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	PF020093

I hereby appoint:

Practitioners at Customer Number  
**Customer Number 24498**

OR

Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The above-mentioned Customer Number.

OR

The address associated with Customer Number:

OR

<input type="checkbox"/> Firm or Individual Name	Joseph S. Tripoli, Patent Operations			
Address	THOMSON LICENSING INC.			
Address	P. O. BOX 5312			
City	PRINCETON	State	NJ	ZIP 08543-5312
Country	USA			
Telephone	609-734-6818	Fax	609-734-6888	

I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name	RONALD H. KURDYKA, REG. NO. 26,932		
Signature			
Date	9-27-03	Telephone	609-734-6818

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of 3 forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**POWER OF ATTORNEY**  
**THOMSON LICENSING S.A.**

We,

THOMSON Licensing S.A.  
46, Quai A. Le Gallo  
F-92100 Boulogne-Billancourt  
France

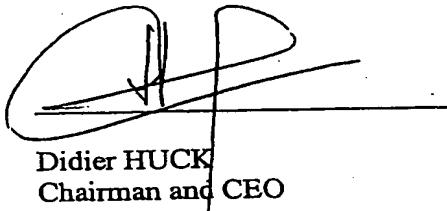
do hereby grant

Joseph S. Tripoli  
Senior Vice President  
Thomson Licensing Inc.  
Two Independence Way  
Princeton, New Jersey 08540

a revocable, non-exclusive and delegable power of attorney to act for us (including the signing of requisite documents) in proceedings concerning patents and applications for patents, including international and other multi-country patents and applications for patents, in our name in the Patent Offices in all countries worldwide from March 11, 2003

DATED this 21<sup>st</sup> day of june, in the year 2005.

Signature:



Typed Name As Signed:  
Title:

Didier HUCK  
Chairman and CEO

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**POWER OF ATTORNEY**  
**THOMSON LICENSING S.A.**

THOMSON Licensing S.A.  
46, Quai A. Le Gallo  
F-92100 Boulogne-Billancourt  
France

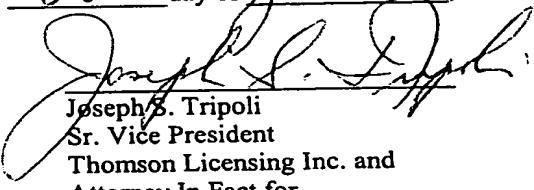
does hereby grant

Joseph J. Laks - Vice President  
Harvey D. Fried - Sr. Patent Counsel/Manager  
Ronald H. Kurdyla - Sr. Patent Counsel/Manager  
Robert D. Shedd - Sr. Patent Counsel/Manager  
Robert B. Levy - Sr. Patent Counsel/Manager  
Frank Y. Liao - Sr. Patent Counsel/Manager  
Reitseng Lin - Sr. Patent Counsel  
Christine Johnson - Sr. Patent Counsel  
Guy H. Eriksen - Sr. Patent Counsel  
Catherine A. Ferguson - Sr. Patent Counsel  
Joseph J. Kolodka - Sr. Patent Counsel  
Kuniyuki Akiyama - Sr. Patent Counsel  
Paul P. Kiel - Sr. Patent Counsel  
Jeffrey M. Navon - Sr. Patent Counsel  
Joel M. Fogelson - Sr. Patent Counsel  
Joseph J. Opalach - Sr. Patent Counsel  
Sammy S. Henig - Sr. Patent Counsel  
Patricia A. Verlangieri - Sr. Patent Counsel  
Jorge Tony Villabon - Patent Counsel  
Vincent E. Duffy - Patent Counsel  
Richard LaPeruta - Patent Counsel  
Francis A. Davenport - Sr. Patent Agent  
William A. Lagoni - Patent Agent  
Brian J. Cromarty - Patent Agent  
Ronald Kolczynski - Member Patent Staff  
*Thomson Licensing Inc.*  
*Two Independence Way*  
*Princeton, New Jersey 08540*

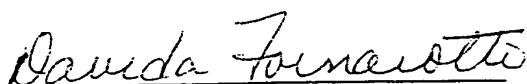
a revocable, non-exclusive and delegable power of attorney to act for us (including the signing of requisite documents) in proceedings concerning patents and applications for patents, including international and other multi-country patents and applications for patents, in our name in the Patent Offices in all countries worldwide from March 11, 2003.

DATED this 22nd day of June, 2005.

SIGNED

  
Joseph S. Tripoli  
Sr. Vice President  
Thomson Licensing Inc. and  
Attorney In Fact for  
THOMSON Licensing S.A.

WITNESS

  
Davida Fornacotto

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